

MONTHLY WEATHER REVIEW,

AUGUST, 1873.

WAR DEPARTMENT,

Office of the Chief Signal Officer,

DIVISION OF

TELEGRAMS AND REPORTS FOR THE BENEFIT OF COMMERCE AND AGRICULTURE.

The general meteorological conditions as determined from the observations taken at the stations of the Signal Service U. S. Army during the month of August, 1873, are indicated upon the accompanying maps.

In comparing these conditions with those of the corresponding period in previous years, the most noticeable features are—

1st. The excess of barometric pressure over New England and the Middle Atlantic States.

2nd. The diminution of temperature below the mean for the month of August in previous years, in the districts above named, and thence westward to include the Lower Lake region and the adjoining States.

3rd. The unusual quantity of rains in the Middle Atlantic District, especially near the coast.

The paths of the centres of the several areas of high barometer are traced on map No. 1.

These areas, with but one exception were first observed in British America, after which they moved with such uniformity, and became so unusually well defined as to render it possible to locate their centres at each of the tri-daily reports of this office from the time of their first appearance until they finally passed beyond the limits of observations.

The general direction of these paths while the areas remained central on the continent, is approximately from the northwest to the southeast, but for want of more extended observations their final direction after passing off the coast, remains as yet undetermined.

During the month of August, 1873, twelve areas of low barometer have been traced on the tri-daily weather maps, and the tracks pursued by the centres of these areas, with explanatory notes, are represented on map No. 2. Track No. 2 may be found on the map accompanying the Weather Review of July.

These areas of low barometer were, with one exception, first observed either in the territories of the United States east of the Rocky Mountains or in Manitoba; and by referring to map No. 3, it will be found that this region is one of mean low barometer for the month. Seven of these areas passed eastward to the Atlantic coast within the limits of our stations, with a mean latitude of 43° .

The remaining areas passed to the northeastward into British America without any decided atmospheric disturbance in the United States.